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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,425	10/24/2003	Thomas Dwayne Nixon	4865/133	2027
JEFFERY M. I	7590 02/05/200 DUNCAN	EXAMINER		
BRINKS HOFER GILSON & LIONE			GROUP, KARL E	
P.O. BOX 10395 CHICAGO,, IL 60610			ART UNIT	PAPER NUMBER
			1755	,
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 02/05/2007		· PAP	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/693,425	NIXON ET AL.				
		Examiner	Art Unit				
		Karl E. Group	1755				
	The MAILING DATE of this communication app						
Period for I	Reply		·				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ R	esponsive to communication(s) filed on 27 De	ecember 2006					
		action is non-final.					
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition		, , , , , , , , , , , , , , , , , , , ,					
4)⊠ CI	4)⊠ Claim(s) <u>14-16,18-25,33,36-40,42 and 43</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) <u>25,33,36-40,42 and 43</u> is/are allowed.						
	6)⊠ Claim(s) <u>14-16,18-24</u> is/are rejected.						
	/) ☐ Claim(s) is/are objected to.						
8) <u></u> CI	aim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority und	ler 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date The proper No(s)/Mail Date Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

Application/Control Number: 10/693,425 Page 2

Art Unit: 1755

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 14-16,18-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification fails to provide support for SiC carbide grain size less than 20 microns. The absence of grains larger than 20 microns does not provide support for a grain size less than 20 microns. In particular in view of applicants arguments that less than 20 microns would mean substantially all of the silicon carbide particles are less than 20 microns allowing for grains larger than 20 microns.

Claim Interpretation

3. The terminology "less than 10 microns" is being interpreted all the silicon carbide grains are less than 20 microns. The terminology "less than 10 microns" means less than 10 microns not mostly less than 10 microns. Applicants argue "less than 10 microns" means substantially all grains are less than 10 microns. If applicants intend to claim "substantially all the silicon carbide grains are less than 10 microns" the claims should be amended to recite such so that a rejection under 25 USC 112, first paragraph can be made. The specification fails to define what is intended by "substantially" and

Art Unit: 1755

therefor have support for the limitation. Does this mean 70%, 80%, 90% of the grains are less than 10 microns? It is emphasized that claims 14, 25 and 43 are interpreted as having silicon carbide grains sizes of less than 20, 10 and 10 microns respectively, with no grains larger than the claimed size.

Allowable Subject Matter

- 4. Claims 25,33,36-40,42 and 43 allowed. The declaration filed 11-3-06 and resubmitted 12-27-06 is sufficient in overcoming the rejection over Gruber et al (6,537,654). The declaration shows the article of Gruber includes some grain sizes larger than 10 microns, which are excluded from the claims.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Karl E Group Primary Examiner Art Unit 1755

Keg 1-22-07